NOTICE

All drawings located at the end of the document.

Revision: 0

September 1997

This Special Task Health and Safety Plan addresses the task-specific hazards associated with the IHSS 118.1 Investigation Project. The IHSS 118.1 Investigation Project will be conducted using this Health and Safety Plan for the task- and area-specific hazards, and the Health and Safety Plan for the Groundwater Program (RFP/ER-SAF-94-GMP) for programmatic and general hazards.



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This is a Groundwater Monitoring Program Subcontractent NOCLED DOCUMENT (5) LANCES TO ATS PLANT

Special Task

ENVIRONMENTAL MANAGEMENT DEPARTMENT This is a RED Stamp COPY # 35

Health and Safety Plan

Pre-Remedial Investigation of IHSS 118.8

Introduction

The purpose of this Special Task Health and Safety Plan is to identify specific hazards and provide the additional requirements for safe work during the Pre-Remedial Investigation of Individual Hazardous Substance Site (IHSS) 118.1 - Multiple Solvent Spills West of Building 730. The requirements of this Special Task Health and Safety Plan are in addition to the requirements of the Groundwater Monitoring Program Health and Safety Plan, RFP/ER - SAF-94-GMP Rev. 1.

Purpose and Scope

This Special Task Health and Safety Plan will apply to activities involved with the Sampling and Analysis Plan for the Pre-Remedial Investigation of IHSS 118.1, RF/RMRS-97-059.

Additional References

In addition to the references cited in the Groundwater Monitoring Program Health and Safety Plan, the following references are included.

- EMD/OP GT.01 Logging Alluvial and Bedrock Material
- EMD/OP GT.05 Plugging and Abandonment of Boreholes
- EMD/OP GT.06 Monitoring Wells and Piezometer Installation
- EMD/OP GT.10 Borehole Clearing
- EMD/OP GT.17 Land Surveying
- EMD/OP GT.39 Push Subsurface Soil Sample

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GROUNDWATER MONITORING PROGRAM SUBCONTRACTOR SPECIAL TASK HEALTH AND SAFETY PLAN Revision Level 0 Job No.

Project Name	Pre-Remedial	Investigation	of IHSS 118.1	·
Task	Geoprobe Inv	estigation of	Carbon Tetrachlo	ride Plume
Requested by	Annette Prim	irose		· · · · · · · · · · · · · · · · · · ·
Proposed Star	rt-Up Date	19	Project/Task No.	
		Rev. 1	Level	
P	repared by/Review	wed by Groundwate Health and Sa	er Monitoring Progra afety Officer	m Subcontractor
Pr	inted Name			
Si	gnature		Date	19
1	Reviewed by Grou	undwater Monitorin	g Subcontractor Site	Safety Officer
Pr	inted Name	· · · · · · · · · · · · · · · · · · ·		
Si	gnature		Date	19
	Approve	ed by EG&G Speci	al Task Project Man	ager
Pri	inted Name	74		<u> </u>
Si	gnature		Date	19
Tit	tie			

Note to Project Managers:

A signed and completed copy of the Health and Safety Plan and a signed and completed copy of the safety briefing (p. 14) <u>must</u> be included in the project file.

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Groundwater Monitoring	Program Subcontract	SPECIAL TASK tor Health and Safety Plan	Job No.
2. Project Description:			
Pre-remedial in	vestigation of	f IHSS 118.1 using Geoprobe equipme	nt.
3. Location: Individual Haza west of Buildin		ce Site (IHSS) 118.1 - Multiple sol Map on Page 25)	vent spills
	ked are in the	e vicinity of the T-9/T-10 tank gro overhead and underground utilities	
5. Proposed Personnel a	nd Tasks:		
Project Manager	Annette Prim	ırose	
Field Team Leader	Craig Cowder	-y	
Propos	ed Field Team	Job Function/Tas	ks
(See Se	1		

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Grour		IAL TASK D SAFETY PLAN
		Job No.
4 .	radiand Sunsa Fator	
D. L	onfined Space Entry	
	limited means of egress, which is subject to the a deficient atmosphere, or other hazards, such as er equipment be inadvertently activated while an empl limited to storage tanks, process vessels, bins, b	ently used or intended for human occupancy, having a accumulation of toxic contaminants, a flammable or oxygen ngulfment, or electrical or mechanical hazards should loyee is in the space. Confined spaces include but are no poilers, ventilation or exhaust ducts, air pollution y vaults, sewers, septic tanks, and open top spaces more disposal trenches, sumps and vats.
	Hill this test coming constitution	
	Will this task require entry into any confined or partially confined space?	YES - Describe below X_No
		 ""
or	Will this task involve use of a cutting torch welding?	X No
<u>.</u>	welding?	
-	welding?	X No
-	welding?	
-	per Potential Mazards Chemical	X No _X Trips, Slips, Falls
-	per Potential Hazards Chemical Radiological Fire/ExplosionX Heat Stress	X No X Trips, Slips, Falls Trenching/Shoring
-	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical	X No
-	per Potential Hazards Chemical Radiological Fire/ExplosionX Heat Stress	X No X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic X Overhead Hazards
a. Ott	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic X Overhead Hazards Unstable/Uneven Terrain X Other - Describe below
a. Ott	welding? Der Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical X Machinery/Mechanical Equipment Description/Other	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic X Overhead Hazards Unstable/Uneven Terrain X Other - Describe below
a. Ott	welding? Der Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical X Machinery/Mechanical Equipment Description/Other	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic X Overhead Hazards Unstable/Uneven Terrain X Other - Describe below
3. Oti	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress Electrical Machinery/Mechanical Equipment Description/Other Overhead utilities (steam, electrical)	X Trips, Slips, Falls Trenching/ShoringX Heavy Equipment/Vehicular TrafficX Overhead Hazards Unstable/Uneven TerrainX Other - Describe below
	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical X Machinery/Mechanical Equipment Description/Other Overhead utilities (steam, electrical)	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic Overhead Hazards Unstable/Uneven Terrain X Other • Describe below this information is accurate to the best of my knowledge
3. Oti	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress Electrical Machinery/Mechanical Equipment Description/Other Overhead utilities (steam, electrical)	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic Overhead Hazards Unstable/Uneven Terrain X Other • Describe below this information is accurate to the best of my knowledge
3. Oti	per Potential Mazards X Chemical Radiological Fire/Explosion X Heat Stress X Electrical X Machinery/Mechanical Equipment Description/Other Overhead utilities (steam, electrical)	X Trips, Slips, Falls Trenching/Shoring X Heavy Equipment/Vehicular Traffic Overhead Hazards Unstable/Uneven Terrain X Other • Describe below this information is accurate to the best of my knowledge

Title

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Groundwater M	lonitoring Progra	MR Subcontracto	r HEALTH AN	SAFETY PLAI	·		Job I	lo
10. Chemical/	Radiological Haz	ard Evaluation						
Weste :	Media			Hazar	dous Character	istics		
^	irborne Contamin	etion		1ge	nitible			
s	urface Contamina	tion	•	Cod	rrosive			
<u>_X</u> c	onteminated Soil			Re	sctive			
<u></u>	ontaminated Grou	ndwater		Ex	olosive			
c	ontaminated Surf	ace Water		<u>×</u> To:	cic (non-radio	logical)		
s	olid Waste			Rac	lioactive			
× L	iquid Waste							
s	ludge							
Substance This task w	ill involve the a	reasonable poss	sibility of ex	posure to th	e substances	listed below :	at concentr	ations or
This task w	ill involve the des which may be I	hazardous to th		he site pers	onnel.	listed below :	at concentr	ations or
This task w		hazardous to th	ne health of t	he site pers	onnel.	listed below a Corrosive/ Icritant	Ignit-	Reactivit
This task w	es which may be i	Primary Inhalation of Dusts/ Hists	ne health of t / Hazard (Rate	the site pers : low, med, Dermal Absorption of Solids/ Liquids and/or Skin Contam.	Dermal Absorption of Gases/	Corrosive/	Ignit-	Reactivity
This task w	es which may be i	Primary Inhalation of Dusts/ Hists	ne health of t	the site pers : low, med, Dermal Absorption of Solids/ Liquids and/or Skin Contam.	Dermal Absorption of Gases/	Corrosive/	Ignit-	Reactivit

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TABLE 1

HAZARDOUS SUBSTANCES

10000000	20000				age:	
Health Effect	Irritates eyes; depress central nervous system; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; potential occupational	Nausea, vomiting, abdominal pain; tremor fingers; jaundice, hepatitis, liver tendemess; dermatitis; monocytosis; kidney damage; potential occupational	Liritates eyes, skin; dizziness, mental dullness, nausea, confusion; headache, fattgue; anesthesia; enlarged liver;	Protential occupational carcinogen Initiates eyes, skin, respiratory system; Central Nervous System depressant; liver and kidney damage	Dizziness, headache, poor sleep, fatigue, nervousness, anorexia, low-weight; psychosis, Parkinson-like syndrome; ocular changes; coronary heart disease; gastritis, liver, kidney injury; eye, skin huns:	Irritates eyes, nose, throat nausea; flushed face, neck; vertigo, dizziness, incoordination; headache, somnolence; skin erythema; liver damage; potential
DEH	200 ppm	100 ppm	500 ppm	850 midd	500 ppm	150 ppm
Exposure Limit	2 ppm (skin)	l ppm (skin)	2 ppm (skin)	0.5 ppm (skin)	í ppm (skin)	25 ppm
Reactive/ Explosive	OU	0 4	no n	00	DQ	01
Ignitable	no	ou	In 0	20	Class IB Flam.	01
Corrosive/ trritant	ou	во	9	00	90	DO.
Exposure Path	inhalation, absorption, ingestion, contact w/ eyes or skin	inhalation, absorption, ingestion, contact w/ eyes or skin	inhalation, absorption, ingestion, contact w/ eyes or skin	inhalation, absorption, ingestion, contact w/ eyes or skin	inhalation, absorption, ingestion, contact w/ eyes or skin	inhalation, absorption, ingestion, contact w/ eyes or skin
Physical Description	Colorless liquid with a characteristic ether-like odor	Colorless to pale-yellow liquid with a pungent chloroform-like.odor	Colorless liquid with a pleasant odor	Colorless to yellow Iquid with a chloroform-like odor	Colorless to Jaint yellow liquid with a sweet ether-like odor	Colorless iquid with a mild, chloroform odor
Substance	carbon tetrachioride	l,1,2,2- letrachloroethane	chloroform	bromoform	carbon disultide	perchlorethylene
Primary Hazard Bating	ਰਗ ਜ਼	high	high	អន្តរាជ រដ្ឋ	200 200 200 200 200 200 200 200 200 200	ngi.

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Groundwater Monitoring Program Subcont	SPECIAL ractor HEALTH AND SA		-		Job No.	
11. Ambient Air/Site Monitoring Proce The following instruments shall to site entry and at the specif	be used to monitor th	e work en	vironment	and worker	s' breathing zones	prior
Instrument	Monitori	ng freque	ncy			
X PID (HNU, OVM) w/ 11.7v lamp OVA Combustible Gas Indicator H2S Detector Colorimetric Detector Tubes X Other (describe below)	Cont. Cont. Cont. Cont. Cont. Cont.	15min. 15min. 15min. 15min. 15min.	30min. 30min. 30min. 30min. 30min.	hourly hourly hourly hourly hourly	otherotherotherotherotherother	
Integrated air sampling: chloroform, 1,1,2,2-Tetra bromoform. NIOSH method	Sampling will achloroethane, p s 1003, 1019, an	erchlor	oethyle	ne, cart	oon disulfide,	and
* Integrated sampling is to observed and when upgrad action levels. Task personnel shall observe the following th	o be initiated fing PPE to Level	f nacit				
Instrument	Action Lev	<u>el</u>		Specia	fic Action	
PID	> Background i (Breathing Zon	_		,	lork: Evaluate use in PPE	

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13. Personal Monitoring Passive Dosimeter X Personal Air Sampling Other Charcoal Tubes	
Description/Other:	
Description/Other: Charcoal Tubes	
	•
14. Biological Monitoring/Medical Surveillance This project requires medical surveillance or biological monitoring procedures beyon the routine medical surveillance program, see description below Description:	d the provisions
	<u> </u>

Control boundaries have been established, and the Exclusion Zone (the contaminated area), Hotline, Decontamination Line, Contamination Control Zone and Support Zone (clean area) have been designated and are identified as follows:

EZ:

Geoprobe Operating Area designated by cones or caution tape.

CRZ:

Around EZ and at decontamination line which will include the Bit Wash

Area. The CRZ will be designated by cones or caution tape.

SZ:

All other areas, not specifically designated.

E. Sorrels or K. Olson has been designated to coordinate access control on the work site during this task. No unauthorized person shall be allowed beyond the Contamination Control line.

AND SAFETY OFFICER AND THE PROJECT MANAGER

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Groundwater Monit	toring Program Subcontractor HEAL	TH AND SAFETY	PLAN		Job No.	
16. Personal Pro	etective Equipment					
Location	Job Funct	tion/Task		Initial Leve	l of Prote	ection
Controlled Zone	Operation of Geoprobe w VOCs in BZ (PID) Any operations with VOC PID/Visible solvent con	s >backgr	ound with	8 C D 1 8 C D 1		
Decontamination Z	one For support ops with no in BZ (PID) For support ops with de and/or visible solvent	etectable	VOCs BZ (PID)	8 C D 1 B C D 1 B C D 1	2 3	othe othe
List the s	pecific protective equipment and m above	aterial (where	a applicable) for ea	ch of the Levels	s of Prote	et i on
Level B	_		Level C			
Pressu	re demand airline -0°- re demand airline with escape prov re demand SCBA	isions	Half face Air Full face Air Full face can Standard work Hard hat, stee Ear protection Inner latex gi Outer NBR (Nice	Purifying Respi ister Air Purify clothes el toed boots, s n during drill r loves	rator ving Respi safety gla rig operat	isses ion
Level D Mod	<u>1</u>	Level _				
X Standar X Hard ha X Ear pro X Inner I X Outer a	rd works clothes (DOEs) at, steel toed boots, safety glasse btection during drill rig operation latex gloves (Witon) her gloves for any work w	es n ith tools				
Where air purify	ving respirators are authorized, _	, NA	are	the appropriat	e	
canisters/cartri	dges for use with the specific substant of each work day.		oncentrations antici	pated. Cartrid	ges shall	be

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SPECIAL TASK Groundwater Monitoring Program Subcontractor , HEALTH AND SAFETY PLAN

Job No.

17. Decontamination

Personnel and equipment leaving the Controlled Zone shall proceed through the following decontamination stations and procedures from the decontamination zone:

Personnel Decontamination

Station

Procedure

CRZ

Wash Water and Liquinox Solution

rinse water

Equipment Decontamination

Station

Procedure

Wash Basins

Wash and Rinse Geoprobe Components

The following decontamination equipment is required:

Wash basins, detergent (as required), waste containers Emergency decontamination procedures:

Immediately wash skin if personnel get solvent on skin.

Immediately change clothing (DOEs) if solvent gets on clothes.

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. . . . '

	SPECIAL TASK OF HEALTH AND SAFETY PLAN	. Job No.
8. Confined Entry Procedures	X Not Applicable	
Yes N/A	Yes N/A	
Provide Forced Ventilation	Refer to Personal Pro	etective Equip. (#16)
Test Atmosphere For:	Refer to Emergency Pr	ocedures (#29)
(a) XO ₂	Other Special Procedu	res
(b) %LEL		
(c) Other		
escriptions/Other:		
. Cutting/Welding Procedure	XNot Applicable	
1		
1		
es N/A	ės .	
res N/A Relocate or Protect Combustible	es Floor	
Relocate or Protect Combustible	es Floor ions (%LEL) in mir	
res N/A Relocate or Protect Combustible Wet Down or Cover Combustible is Check Flammable Gas Concentration	es Floor ions (%LEL) in mir	

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roundwater Monitor	ing Program Subcontractor	SPECIAL TASK HEALTH AND SAFETY PLAN	Job No.
. Onsite Organiz	ation and Coordination		
roject Manager: eld Team Leader: te Safety Office	VANAN TITEAN		
Field Team	John Boylan	Job Function Project Geologist	•
	William Crawford Andrew Francisco	Geoprobe Staff Geoprobe Staff	
	Karen Olson	Site Safety Officer	
	Earl Sorrels	HSS	

21. Special Instructions

Use of a ventilation fan during periods in the work area will be used to ensure that no accumulations of VOC occur in the breating zone.

The area downwind of the work area will be controlled to limit access to personnel.

Viton gloves will be worn any time a potential for contact with solvents or contaminated media exists.

within 48 hours of verbal authorization)

CI.

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Groundwater Monitoring Program Subcom	SPECIAL TASK ntractor HEALTH AND SAFETY P	LAN		Job No.
2. Sanitation Requirements				
Potable water supply available	on work site?	X Yes	Bldg. 701	
Portable toilets required on w	ork site?	X No	If Yes, how many?	
Temporary washing/shower facil	ities required at work site?		If yes, describe below If no, state location	.
Description: Portable ey	rewash with shower noz	zle	existing facilities.	•
. Field Procedures Change Authoriz	ation			
nstruction Number	Duration of Authorizati	on Requeste	ed Date:	
o be changed	Today only	on nagarati		
	Duration of Task			
Description of Procedures Modification: Justification: rson Requesting Change:	Verbel Authorization Recei	ved From:		
			-	
Name	Name		Ti	ime
Title		Title		
Signature		Approved 6	ly .	
	(Signature o	f person na	med above to be obtaine	d

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SPECIAL TASK Groundwater Monitoring Program Subcontractor HEALTH AND SAFETY PLAN					
ii oo oma		g Program Subcuritiactor nextra AND SAFETY	Job No.		
4. Emer	rgency Proced	ures This page is to be posted at promi	ment location on site.		
Ye X		On-site Communications Required? Em	#2911 or Emergency Button EMAD 5		
	earest Telepho	B/701			
F2					
	and Explosio				
In the	event of a fi	re or explosion, if the situation can be re	•		
In the d	event of a fi izing the hea	re or explosion, if the situation can be re	•		
In the d	event of a fi izing the hea	re or explosion, if the situation can be re lth and safety of yourself, the public, or	•		
In the d jeopard so, othe	event of a fi izing the hea erwise:	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911	other site personnel, take immediate action to do		
In the disperding so, other	event of a fi izing the hea erwise: . Notify emerg	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling	other site personnel, take immediate action to do		
In the dispersion of the last section of the l	event of a fi izing the hea erwise: . Notify emergossible, isolo	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling ate the fire to prevent spreading.	other site personnel, take immediate action to do		
In the dispersion in the dispe	event of a fi izing the hea erwise: . Notify emerg	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling ate the fire to prevent spreading.	eadily controlled with available resources without other site personnel, take immediate action to do		
In the c jeopard so, othe 1. 2. If po	event of a fi izing the hea erwise: . Notify emergossible, isolo . Evacuate the	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling ate the fire to prevent spreading.	other site personnel, take immediate action to do		
In the c jeopard so, other 1. 2. If po 3.	event of a fi izing the hea erwise: . Notify emergossible, isolo . Evacuate the nical Exposure	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling ate the fire to prevent spreading.	other site personnel, take immediate action to do		
In the of jeopards so, other so, oth	event of a fi izing the hea erwise: Notify emergossible, isolo Evacuate the mical Exposure rkers must no	re or explosion, if the situation can be re lth and safety of yourself, the public, or 2911 gency personnel by calling ate the fire to prevent spreading.	other site personnel, take immediate action to do		

SEE TABLE 2

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TABLE 2 CHEMICAL EXPOSURE

Eye: Irrigate immediately Skin: Soap wash promptly Breath: Respiratory support		Swallow: Medical attention immediately Eye: Irrigate immediately Skin: Soap wash promptly Breath: Respiratory support	Swallow: Medical attention immediately Eye: Irrigate immediately Skin: Soap wash promptly Breath: Respiratory support Swallow: Medical attention immediately
Symptoms of Acute Exposure Irritates eyes; depress central nervous system; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination	Nausea, vomiting, abdominal pain; tremor fingers; jaundice, hepatitis, liver tenderness; dermatitis; monocytosis; kidney damage	Irritates eyes, skin; dizziness, mental dullness, nausea, confusion; headache, fatigue; anesthesia; enlarged liver	Irritates eyes, skin, respiratory system; Central Nervous System depressant; liver and kidney damage
Substance carbon tetrachloride	1,1,2,2- letrachloroethane	chloroform	bromoform

Page:

First Aid	Eye: Irrigate immediately	Skin: Soap wash promptly	Breath: Respiratory support	Swallow: Medical attention immediately	Eye: Irrigate immediately	Skin: Soap wash promptly	Breath: Respiratory support	Swallow: Medical attention immediately
Symptoms of Acute Exposure	Dizziness, headache, poor sleep, fatigue, nervousness, anorexia, low-weight; nevchosis: Parkinson-like exadrome: ocular changes.	coronary heart disease; gastritis; liver, kidney injury; eye, skin	burns; dermatitis; reproductive effects		Irritates eyes, nose, throat; nausea; flushed face, neck; vertigo, dizziness incoordination; headache compolence ekin endebene.	liver damage; potential occupational carcinogen		
Substance	carbon disulfide				perchlorethylene			

Maximum concentrations identified from previous soil and water samples:

- 8.1E7 µg/kg in soil 1) carbon tetrachloride
- 2) 1,1,2,2-tetrachlorethane 6.1Ε6 μg/kg in soil 3.8E6 µg/kg in soil
- 1.7E6 µg/kg in soil
- 1.1E5 µg/kg in soil
- 2.5E6 µg/kg in soil

6) perchlorethylene

5) carbon disulfide

4) bromoform

3) chloroform

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indwater Monitoring Program Subcontractor HEA	SPECIAL TASK LTH AND SAFETY PLAN	
advacer notificating Frogram Subcontractor new	LIN AND SAFETT FEAR	Job No.
Emergency Procedures - Cont'd		
On Site Injury Or Illness		
the event of an injury requiring more than mir		
	vent of life-threatening or trauma	
propriate first-aid and immediately call for en signated trauma center is Avista Hospota		2911 The nearest
Designated Personne Earl Sorrels	Current in First Aid/CPR (Names) Karen Olson	
Lari Sorrets	Karen organ	
		•
Designated Back-Up Personnel (Names)	Function	
besignated back-up reliabilities (names)	raction	
		
Required Em	mergency Back-Up Equipment	
ergency Response Authority		
The Shift Super	is the designated site emergen	cv coordinator and has final
authority for first response to on-site emer		-,
•		
Upon arrival of the appropriate emergency re	•	
authority but shall remain on the scene if r	•	
earliest opportunity, the site safety office coordinator or health and safety officer.	er or the site emergency coordinato	r shall contact the project
Project Coordinator Annette Primrose	Phone (w) 966-4385 (h	
Karen Olson	966-6370	
Health and Safety Karen Olson	Phone (W)	
Officer		
Health & Safety <u>Peggy Schreckenga</u> Supervisor	<u>ist</u> Phone(w) <u>966-6790</u> (h	

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Groundwater Monitoring Program Subcontracto	SPECIAL TAS P HEALTH AND SAFET		Job No.
25. Safety Briefing			
The following personnel were present(date) at with its provisions:	• •	-	
Name	,	Signature	
Fully charged ABC Class fire extinguisher a Fully stocked first Aid Kit available on si			YES
All project personnel advised of location o			YES
All project personnel advised of location o	· ·	facility or facilities?	YES
	Printed Name of	Field Team Leader or Site S	Safety Officer
	Signature	Date	

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118.1 Investigation Response to Unknown Hazards

In the event that unexpected hazards or conditions are encountered during investigation activities, the project activities will pause to assess the potential hazard or condition. The project manager and field manager will be notified immediately, as well as the RMRS Safety Officer. The potential hazard or condition will be evaluated to determine the severity or significance of the hazard or condition. Based on this initial evaluation, a determination will be made whether to proceed with controls currently in place; segregate the condition or hazard from the project activity, if it can be done safety, or curtail operations to address the unexpected hazard or condition. Concurrence down the selected path must be obtained from the RMRS ER Director, Ann Tyson, or her designee.

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Table 1. Emergency Contact Telephone and Pager Numbers

Fire

x.2911

Poison Center

629-1123

Ambulance

x.2911

Security

x.2911

Nearest Emergency Medical Services Are Located At:

Building 122 as shown on

attached map.

Nearest telephone is located at:

B701

Additional Project Telephone Numbers

Director- ER - Ann Tyson

Manager - ER- Maria Broussard

H&S Manager - Ken Jenkins

Project Manager - Annette Primrose

Project Geologist - Mike Bemski

Project Engineer - Craig Cowdery

H&S Supervisor - Peggy Schreckengast

HSS - Karen Olson

HAZMAT Emergency Response
Occupational Health General Information

x4829/d1101

x6007/d4010/r3740

x5374/d7455/r4505

x4385/d4675/r3801

x4090/d7466/r3805

x2055/d5466/r3736

x6790/d3059/r3702

x6370/r3795

x2911

x2594

Note: d= digital page. The digital page system can be activated on plantsite by dialing extension 4000, then following the instructions.

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PRE-REMEDIAL INVESTIGATION OF IHSS 118.1

Preliminary Hazard Analysis (PHA)

10-Sep-97

A Pre-Remedial Investigation of Individual Hazardous Substance Site (IHSS) 118.1-Multiple Solvent Spills West of Building #370 at the Rocky Flats Environmental Technology Site (RFETS) is to be accomplished. This PHA/AHA is intended to fulfill the criteria of a Job Safety Analysis (JSA) in accordance with DOE Order 5480.9A, Construction Safety and Health Program. It is intended to identify and address job specific safety concerns in conjunction with the Groundwater Monitoring Program Health and Safety Plan and is not intended to replace or override any other applicable document. Any perceived conflict with higher level documents will be addressed by the responsible Health and Safety representative. A brief summary of the planned activities is as follows:

- Operation of Geoprobe equipment in support of the Pre-Remedial Investigation.
- Soil sampling via Geoprobe core(s).
- Solvent recovery well installation.
- Geological evaluation of substratum.
- Construction safety precautions in accordance with 29CFR1926 and applicable chapters of the Health and Safety Practices manual will be followed while working at IHSS 118.1. This will include the use of hard hats, safety glasses with side shields. and safety shoes at all times, and use of the "buddy system" for any work requiring power tools.

Any questions may be directed to Earl Sorrels (X5356) or Peggy Schreckengast (X6790).

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PRE-REMEDIAL INVESTIGATION OF IHSS 118.1

Activity Hazard Analysis (AHA)

10-Sep-97

Activity	Hazard	Preventive Measures
General operation of Geoprobe equip- ment	General safety	Construction safety will be in accordance with 29CFR1926, 29CFR1910, and DOE 5480.9A. Personnel required to enter the equipment operating area for this project will wear a Level D work uniform specified in the Groundwater Monitoring Program Health and Safety Plan; work clothes with long sleeves (DOE coveralls are available), safety shoes, safety glasses with side shields, a hard-hat and an orange vest for personnel in the vicinity of the Geoprobe during movement.
		A trained and qualified Health and Safety Specialist (HSS) will be required for continuous support.
	Pinch or crush injury	Personnel involved with Geoprobe setup and operation will be watchful of pinch and crush point potential. Leather gloves will be worn at the discretion of the Site Safety Officer.
		Only operators with specific training and qualification on the Geoprobe equipment to be utilized for investigation operations shall perform these evolutions.
		Personnel will at no time place any part of their body beneath a lifted load.
	Noise	Hearing protection is required during operation of the Geoprobe when noise levels exceed 85 dB. Monitoring to characterize noise levels will be conducted. Noise dosimetry will utilized for personnel who may be exposed to an average of 85 dB for 8 hours. Personnel exposed above this level must be included in a hearing conservation program.
	Cuts from hand or power tools.	Leather gloves will be worn during all work involving hand or power tools. All circuits will be Ground Fault Circuit Interrupt (GFCI) protected and extension and power supply cords will be

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Activity	Hazard	Preventive Measures
		inspected prior to use.
	Electrical shock; overhead/ underground utilities	At no time shall the Geoprobe equipment be brought to within 10 feet of potentially energized overhead utilities (electrical, steam). Underground utilities shall be located prior to
		Geoprobe operations.
Geoprobe investigations	Chemical exposure	In addition to Level D (work clothes, safety shoes, safety glasses, hard-hats), Personnel Protective Equipment (PPE) shall be modified to include two pair of chemical resistive gloves for handling Geoprobe components during use. This will include inner nitrile gloves and outer viton gloves.
		HSS shall evaluate the need to upgrade PPE to Modified Level D or Level B depending on the presence of solvent liquid or Breathing Zone (BZ) monitoring results with a Photoionization Detector (PID) > background indications. Work shall be paused for any evaluation of this type.
		Removal of drive caps when the potential for liquid is indicated shall be done with a plastic bag covering the drive cap.
		If liquid is present during hammering operations protection from splashing at the bore shall be accomplished to direct any liquid down and away from personnel.
		Personal BZ air monitoring shall be accomplished using integrated sampling if PID indications are positive and PPE is upgraded to Level B.
		Use of a ventilation fan directed at the Geoprobe shall be used to minimize possible exposure to airborne solvent during conditions of no ambient wind air flow. The area downwind of the Geoprobe operation shall be controlled such that no inadvertent personnel exposures to airborne solvent occur.

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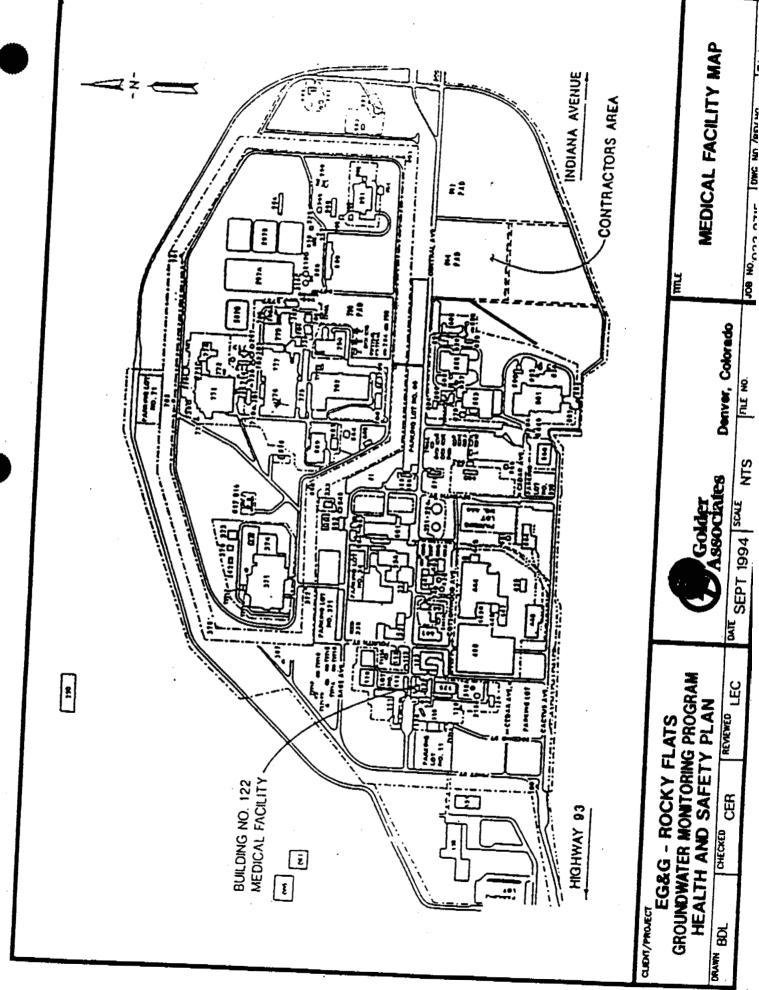
Approved:

PM . Annette Primrose

FS Craig Cowdery

H&S Peggy Schreckengast

RE Bates Estabrooks Signature and Date



Special Task Health and Safety Plan
for the IHSS 118.1 Investigation

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I have read the contents of this Special Task HSP, am familiar with the Groundwater Monitoring HSP, and

agree to comply with the contents within.

Name	Signature	Title	Date
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